



**3rd International Conference on
Automation & Information Technology in Iron & Steel Making:
Process Improvement & Energy Efficiency (AITISM'12)**

PROGRAMME DETAILS

Updated on 01.02.2012

08 FEBRUARY 2012	
10.00 Onwards	Registration (Auditorium Foyer)
14.15 - 15.45	Inaugural Session (Auditorium)
15.45 - 16.00	Inauguration of Technical Exhibition (Auditorium Foyer)
16.00 - 16.30	Inaugural-Tea (Ispat Bhawan, North West Side)
16.30 - 18.00	Plenary Session (Auditorium)
	1. Advances in Robotics & Automation - The Eternal Quest for Autonomy <i>Dr. Prabir K Pal</i> , Head, Autonomous Robotics Section, Division of Remote Handling & Robotics, Bhabha Atomic Research Centre, Mumbai, India
	2. Challenges and Innovation in Automation for Metal industry <i>Enrico Plazzogna</i> , VP, Danieli Automation, Italy
	3. An Overview of Problems and Opportunities in BF and BOF Process Control <i>Prof. A. K. Lahiri</i> , Former-Head, Metallurgical Engineering Department, Indian Institute of Science, Bangalore, India
18.00 - 19.00	Visit to Technical Exhibition (Auditorium Foyer)
19.00 onwards	Cultural Evening (Auditorium) : "ABAHONI" <i>Sharmila Biswas</i> , Odissi Vision & Movement Centre, Kolkata, India
20.00 onwards	Dinner (MECON Community Hall)
09 FEBRUARY 2012	
09.00 - 10.25	Technical Session – I A (Auditorium) <i>Process Automation in Raw Material Handling , Iron & Steel making area</i>
	P-08 Upgrade of Slab Caster Automation at JSW Steel Ltd. Toranagallu Works <i>Peter Juza, Reinhold Leitner, Walter Pitzer, Biswajit Poddar, Debajyoti Pattnaik</i> , Siemens VAI, Austria
	P-37 Automatic tapping at BOF Converters <i>Wolfgang Linden, Jochen Schlüter</i> , SMS Siemag AG, Dusseldorf, Germany
	P-59 BFXpert™ - Paul Wurth's Integrated Level 2 System for Process Improvements, Energy Efficiency and Cost Reduction <i>Philipp Bernes, J P Simoes, G Odicino, F Hansen, L Hausemer, C Morelli</i> , Paul Wurth S.A., Luxembourg
	P-60 Maximizing BOF production capacity and producing cost efficient by using substance based process control <i>Walter Vortrefflich, Jan De Vries</i> , Danieli Corus BV, Netherlands
	P-42 CAFOS: Casting Online Fault Forecasting System – Concept, Development & Validation <i>Arya. K. Bhattacharya, K. Rajasekar</i> , Tata Steel, India
	P-13 Application of Wireless Technology in Automation for Process Improvement -A Feasibility Study in Iron and Steel Making <i>A S Chauhan, Manas Mishra</i> , JSPL, Raigarh, India
10.25 - 10.30	Concluding Remarks by Session Chair



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09.00 - 10.25	Technical Session – I B (Committee Room) Application of Information Technology	
	P-38	Framework for Web based SCADA/HMI using RIA Technologies <i>Lancy Thomas, Santha.L, Sreedhanya.L.R, Shankar.SS, Krishnalal.K.K, Vidhya.H, CDAC-T, India</i>
	P-30	Remote services for automation systems in Metal Industries– Solutions for Products and Services <i>Ajay Ruhela, Norbert Bökmann, SMS Siemag, India</i>
	P-16	Converter Online: Enabling location independent monitoring of online process parameters of Oxygen Blown Converters <i>B. Madhu Pillai, Sandeep Verma, Bhilai Steel Plant, SAIL, India</i>
	P-02	Re-Engineering of LEVEL-2 System of Blast Furnace # 4, DSP from VAX/VMS to RHEL/VB.NET <i>S K Hajra Chaudhuri, G Singh, S K Mishra, R Tripathi, Durgapur Steel Plant, SAIL, India</i>
	P-32	Development of Automatic Data Communication System for Lab Analysis Equipments of Steel Melting Shop to Process Control System at Bokaro Steel Plant <i>K. Mohanty, Anushree, Aparna Rajan, Bokaro Steel Plant, SAIL, India</i>
	P-04	Improving operational efficiency and productivity through automatic SMS regarding equipment or process failures from control desk <i>S R Jattele, Bhilai Steel Plant, SAIL, India</i>
10.25 - 10.30	Concluding Remarks by Session Chair	
10.30 - 11.00	Visit to Technical Exhibition & Tea (Auditorium Foyer)	
11.00 – 13.05	Manufacturer's Presentation Session– I (Auditorium)	
	MP-01	“Innovation” in automation of metal processing <i>Raffaele Treu, Danieli Automation ,Italy</i>
	MP-02	Automation in Coke making Process <i>B. D. Pal, Bhilai Engineering Corporation Ltd., Bhilai, India</i>
	MP-03	High availability General Purpose Distributed Control System <i>V.Muralidharan, Centre for Development Advanced Computing (CDAC), Thiruvananthapuram, India</i>
	MP-04	Smart Wireless: Increase Efficiency, Availability and HSE compliance <i>Harish Atmakury, Emerson Process Management, India</i>
	MP-05	Automation and IT Convergence Evolves - The Way Steel is Made <i>Manas Basu, Rockwell Automation, India</i>
13.05 - 13.15	Concluding Remarks by Session Chair	
13.15 - 14.15	Lunch (Ispat Bhawan, North West Side)	



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14.15 - 16.25	Manufacturer's Presentation Session– II (Auditorium)	
	MP-06	Ferrous Mineral Processing Plant Automation Suman Chatterjee, Outotec India
	MP-07	Heavy Duty Products for Speed & Position Control in Steel & Metals Industry Prasad Kulkarni, Baumer India Pvt. Ltd., India
	MP-08	Modern Control Technique in Steel Plant Applications Upendra Sahasrabuddhe, Forbes Marshall, Pune, India
	MP-09	Heavy Duty Equipment (Position & Velocity Feedback Devices & Accessories) from JOHANNES HUBNER GIESSEN – Reliable Solution to Steel Industry Nagaraj S.Math, Vaibhavi international Trading House, Thane, India
	MP-10	Specialty Solutions for Coke Oven and yard Equipments Venkat Balaji, Jitendra Shende, Lotus Wireless Technologies India Pvt Ltd, India
16.25 - 16.30	Concluding Remarks by Session Chair	
16.30 - 16.45	Tea Break (Auditorium Foyer)	
16.45 - 18.10	Technical Session – II A (Auditorium) Application of Soft Computation, Models and Expert System	
	P-19	An Advanced Control System of a Slab Reheating Furnace and Optimization Pavel Skopec, Jan Knobloch, Tomáš Vyhlídal, Goran Simeunović, Michal Švantner, Milan Honner, Pike Automation, Czech Republic
	P-40	Extended Process Models for Hot Rolling Mills Dr Y-H Li, C.A.Fryer, Converteam India Pvt. Ltd, UK
	P-03	Planning for the Smarter Steel Enterprise Sivaramakrishnan Narayanan, Abhishek Kaul, IBM, India
	P-07	Blast Furnace Automation Abhijit Maitra, Samaresh Chakraborty, Siemens VAI, India
	P-48	E-Maintenance, A future journey towards Computerized Condition Monitoring and Maintenance Subimal Bikash Chaudhury, TATA Steel, India
	P-29	An expert system based on-line heating control system for Bell Annealing Furnaces of Line # 1 at Cold Rolling Mill, Bokaro Steel Plant S.Mitra, S.K. Saha, R.S.Kumar, P. Gupta, M. Gangadaran, B. K. Prasad, A. K. P. Singh, R. Maheswari, N. K. Ghosh, S. Roy Choudhary, RDCIS, SAIL, India
18.10 - 18.15	Concluding Remarks by Session Chair	
16.45 - 18.10	Technical Session – II B (Committee Room) Current Trends in Automation	
	P-22	World's first 3-strand CSP® caster at Essar Steel with electrical equipment and automation systems from SMS Siemag Detlef Ehlert, Thomas Stark, Bernward Reif, Atanu Dey, Klaus Pronold, SMS Siemag AG, Germany
	P-46	The Mobile Computing Revolution – Potential for Steel Industry Sanjay Oswal, Bechtel, India
	P-50	Applications of Wireless Technologies and Advanced Automation Systems in Minerals & Metal Industry for Improving Efficiency and Achieving Economic viability in Production C. H Prasad Rao, C.R. Mohapatra, S.R. Deewangan, CET, SAIL, India



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	P-28	Migration from Conventional Control Cable to Wireless Technology for Control and Monitoring at Raw Material Handling Plant, Durgapur Steel Plant <i>Tushar Puranik, Parth Das, Sulabh Raj, Manish Kulshrestha, Ranjit Singh, Durgapur Steel Plant, SAIL, India</i>
	P-55	Performance Improvement of Wagon Tippler Complex at Raw Material Handling Plant, Bokaro Steel Limited <i>Prashant Gupta, Deepak Kumar, Susanta Majumdar, AKP Singh, S Ilangovan, Archana Sharan, BK Prasad, Ramanuj Prasad, RDCIS, SAIL, India</i>
	P-41	System based on Manufacturing Intelligence for Metal and Mining Industry <i>Vijay Singh, Rockwell Automation, India</i>
	P-09	Enterprise Ladle Tracking System – an expert decision support process model for BOF steelmaking <i>A. K. Roy, B. Singh, S. Kumar, Durgapur Steel Plant, SAIL, India</i>
18.10 - 18.15	Concluding Remarks by Session Chair	
16.45 - 18.10	Technical Session – II C (Seminar Hall) <i>Automation for Process Improvement</i>	
	P-34	Short Circuit Protection of MCC Panels <i>SK Mishra, S Bhattacharya, Bokaro Steel Plant, SAIL, India</i>
	P-56	Development of Mill-Setup Model for Finishing Stands of Hot Strip Mill using Mathematical-ANN Hybrid Modeling <i>S. Rath, R. Verma, A. Gupta, S.K. Thakur, K. Venkatraman, M.B.S. Namoothiripad, P.P. Sengupta, A.P. Singh, Dr. R. Avtar, Dr. D. Mukerjee, RDCIS, SAIL, India</i>
	P-25	Fully automated Pneumatic conveying of bulk fine and Coarse material handling <i>M.Hussain, Sanjeev Ganguly, Bhilai Steel Plant, SAIL, India</i>
	P-57	Optimization of Fluid Flow Profile of the tundish to produce clean steel <i>Sujata Devi, Amitava Paul, R. K. Singh, T. K. Pratihari, RDCIS, SAIL, India</i>
	P-31	Energy optimization in a Steel Plant-A step above the plant-floor integration <i>Kishore Mahamunkar, Schneider Electric, India</i>
	P-52	Implementation of an improved control & monitoring system for high power exhaustor motor & its auxiliaries in converter of Steel Melting Shop#1 of Bokaro Steel Plant. <i>S. Majumdar, P. Gupta, A. Sharan, R. Prasad, A. Prasad, S.Ilangovan, D. Kumar, B.K. Prasad, A.K.P. Singh, S. Kanjilal, RDCIS, SAIL, India</i>
	P-33	A Novel Scheme for Auto Slowdown in Pickling Line-II of Bokaro Steel Plant <i>D.N.Mohanty, P.S.Krishnamurthy, S.Tudu, A.Gupta, N.Jawed, Bokaro Steel Plant, SAIL, India</i>
18.10 - 18.15	Concluding Remarks by Session Chair	
18.15 – 19.00	Visit to Technical Exhibition (Auditorium Foyer)	
19.00 onwards	Dinner & Cultural Program (“Instrumental "Across the Vindyas" by LAVAVINYAS) -MECON Community Hall	



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10 FEBRUARY 2012		
09.00 - 10.25	Technical Session – III A (Auditorium) <i>Quality assurance and Energy conservation</i>	
	P-58	Danieli Automation Power Demand Controller-Power Management Solution for Efficient Steel Making <i>Avik Ghosh, Danieli India Ltd, India; Pivotti Roberto, Mestroni Antonello, Danieli Automation SpA, Italy</i>
	P-06	Energy Savings by the Arvedi ESP Technology and Plant Design <i>B Linzer, F Mazzolari, A Jungbauer, P Bhooplapur, Siemens VAI, Austria</i>
	P-36	ARCESS [®] FEOS – Optimized energy input into the EAF <i>Wolfgang Linden, Keshav Kumar Gaur, SMS Siemag AG, Germany</i>
	P-20	Online Quality Data Warehouse for Metallurgy <i>Vladimir Sklenář, Vladimír Zítka, Jan Knobloch, Pavel Čermák, Pike Automation, Czech Republic</i>
	P-44	Continuous Improvement of Surface Inspection system at Tata Steel <i>Satyabrata Rout, P K Tiwari, TATA Steel, India</i>
	P-21	Design, Development and Installation of automatic cut- to-length system for slab caster machines <i>SRK Rao, Rajnish Jain, Bhilai Steel Plant, SAIL, India</i>
10.25 - 10.30	Concluding Remarks by Session Chair	
09.00 - 10.25	Technical Session – III B (Committee Room) <i>Process Automation in Rolling Mills</i>	
	P-39	AC Main Drives for Cold Rolling Applications <i>Dr Sami Siala, C.A.Fryer, Dr Franck Terrien, Convertteam India Private Ltd, India</i>
	P-23	Pickling line / tandem cold mill with electrical and automation systems from SMS Siemag successfully commissioned at MMK <i>Detlef Ehlert, Dr. Michael Bühren, Joachim Schaumann, Keshav Kumar Gaur, Atanu Dey, SMS Siemag AG, Germany</i>
	P-53	Design and implementation of automation & control system for cooling bed and bar shears of Merchant Mill at Durgapur Steel Plant <i>A Prasad, V Kumar, Shaktiveer Singh, I Banerjee, K K Thakur, P A Aneesh, S Ilangovan, S Majumdar, B.N. Ghosh, B K Prasad, AKP Singh, RDCIS, SAIL, India</i>
	P-54	Automation for Process Improvement in Wire Rod Mill, Bhilai Steel Plant <i>Surendra Singh, Anupama Kumari, Bhilai Steel Plant, SAIL, India</i>
	P-01	Introduction of Digital Field Control System in Skelp Mill of Durgapur Steel Plant <i>T K Dutta, A K Paul, B N Ghosh, I Banerjee, S Singh, P A Aneesh, G Majumder, S Sarkar, N Gupta, RDCIS, SAIL, India</i>
	P-18	Replacement of R30 Computers based Process Control System with state-of-the-art technology in Wire Rod Mill, RINL <i>N S Sarma, P Phanigopal, Anindya Paul, P Chandrasekhar, Visakhapatnam Steel Plant, RINL, India</i>
10.25 - 10.30	Concluding Remarks by Session Chair	
10.30 - 11.00	Visit to Technical Exhibition & Tea (Auditorium Foyer)	



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11.00 - 13.05	<i>Manufacturer's Presentation Session– III (Auditorium)</i>	
	MP-11	Metals Technologies Electrics/Automation SN Upadhaya, SIEMENS Ltd., India
	MP-12	Industrial Ethernet Advantage in Industries and Power Utilities <i>Rudi Carolsfeld</i> , Ruggedcom Inc., Canada
	MP-13	SICK in Steel <i>Mohan Nair</i> , SICK India Pvt. Ltd., India
	MP-14	Innovative Solutions from Rittal for the Steel Industry <i>Ashish Gupta</i> , Rittal India Pvt. Ltd., India
	MP-15	Real Time Analysis in Raw Material Handling & Processing <i>Rajendra Mishra</i> , PANalytical India
13.05 - 13.15	Concluding Remarks by Session Chair	
13.15 - 14.15	Lunch (Ispat Bhawan, North West Side)	
14.15 - 15.40	Technical Session –IV A (Auditorium) <i>Instrumentation & Process Control</i>	
	P-11	Automation Technology for Sustainable Resource and Energy-efficient Electric Steelmaking <i>Dr. Ananya Mukhopadhyay, Marco Ometto, Danieli</i> , Italy
	P-45	The Application of Process Mass Spectrometry to Gas Analysis in the Iron and Steel Industry <i>Robert Wright, Christopher Williams, Peter Traynor, Jitendra Patil, Thermofisher</i> , UK & USA
	P-05	Improved Productivity and Safety in Coke-making with PUMAS <i>Ilmari Veijola, Olaus Ritamäki, Aarno Kellin</i> , Siemens VAI, Finland
	P-24	Elimination of charging delay due to malfunctioning of furnace pressure equalizing signal <i>R. Sreeranjini, G.P. Singh</i> , Bhilai Steel Plant, SAIL, India
	P-35	Dynamic Crane Weighment in SMS-II: Challenges and Innovation <i>S. Gupta, K. Mohanty, S.Sarkar, P.K.Srivastava</i> , Bokaro Steel Plant, SAIL, India
	P-15	Innovative Automation – The New Face of BELL LESS TOP Charging System: A Case Study of Visakhapatnam Steel Plant, Visakhapatnam, India. <i>S Chakravarty</i> , Visakhapatnam Steel Plant, RINL, India
	15.40 - 15.45	Concluding Remarks by Session Chair
14.15 - 15.40	Technical Session –IV B (Committee Room) <i>Process and Business Computerization</i>	
	P-12	Generic Yard Management System (GYMS) <i>Susanta Kumar Mishra, Raj Kishore Kumar</i> , TATA Steel, India
	P-47	Project Finance and Management System <i>Vikash Kumar, Tejadipta Behera, Bipradas Samaddar, Dipak Kr Majumdar, Nilanjan Das, P.K.Mukherjee, D. Mondal, Salil Mazumder, Mukesh Kr.Swami</i> , IISCO Steel Plant, SAIL, India
	P-49	Manufacturing Execution System (MES) – A performance advantage for Steel Industry <i>Ravindra Agarwal, M. T. Pandian, Sanjit Dash</i> , MECON Ltd., India



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	P-43	Scientific Approach towards Maintenance: Driving the growth story of Sinter Plant III, Bhilai Steel Plant, Steel Authority of India Ltd <i>Vijay K. Goyal, Vivek Srivastava , K.K.Verma, Bhilai Steel Plant, SAIL, India</i>
	P-14	Advancement in Automation & IT for Blast Furnace Burden Management: A Case Study of Visakhapatnam Steel Plant, Visakhapatnam, India <i>Samir Kumar Kar, Visakhapatnam Steel Plant, RINL, India</i>
	P-26	Evolution of OPEX-Manufacturing Execution Solutions in Bhilai Steel Plant <i>R.K.Gupta, Ajay Kumar, Samidha Gupta, Bhupendra Jangpangi, Amitabh Sengupta, Bhilai Steel Plant, SAIL, India</i>
15.40 - 15.45	Concluding Remarks by Session Chair	
15.45 - 16.00	Tea Break (Auditorium Foyer)	
16.00 - 17.00	Concluding Session (Auditorium)	